

Clean Bilge New Bedford



Problem

Oil spills continue to occur in New Bedford Harbor

- No identified source or responsible party
- Reluctance to report spills
- Lack of Awareness of the problem
- Poor waste oil management practices
- Limited waste oil disposal options





New Bedford Harbor Oil Spills* 2005 - 2015

Legend

No. of Spills

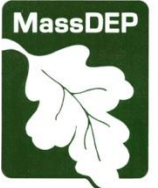
- 1 - 10
- 10 - 20
- 20 - 30
- 30 +

71 spills not
plotted due to lack
of location
reference



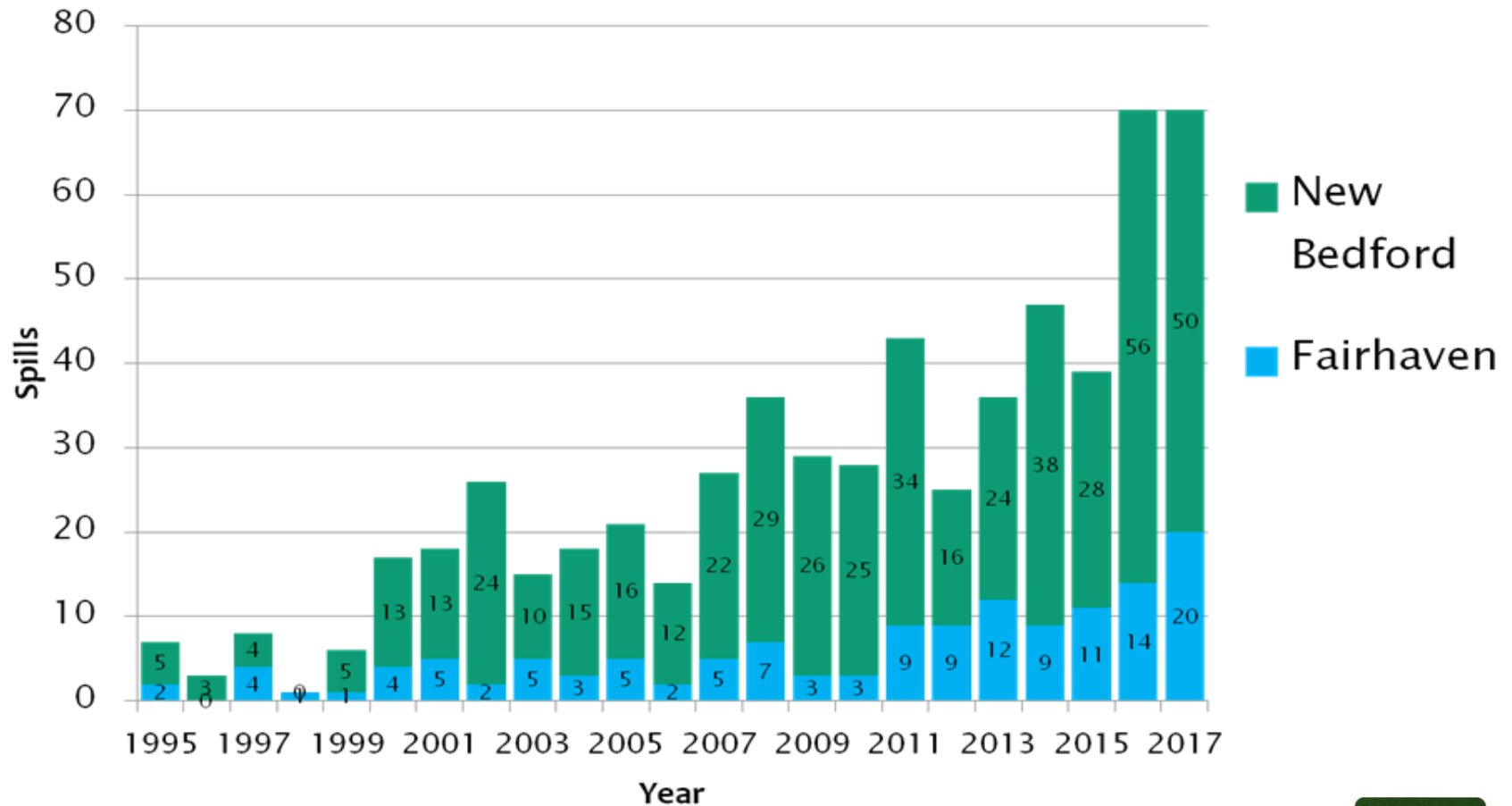
0 500 1,000 2,000 3,000
Feet

* Oil Spill Data from National Response Center
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Spills Reported to NRC

Current as of December, 2017



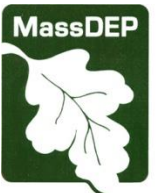
How we got here

- Early 1990's, HMM Associates Report
- Late 1990's Oil Spill Work Group Proposal
- 2010 HDC/Green Seal Proposal
- 2013 2nd Oil Spill Work Group HDC Proposal



2nd Work Group Members

- Town of Fairhaven
- City of New Bedford / Port Authority
- Buzzards Bay Coalition
- Coastal Zone Management
- Nuka Research
- U.S. Coast Guard
- MassDEP



Clean Bilge New Bedford Pilot Project

Three-pronged approach began in October 2015

1) Outreach & Education

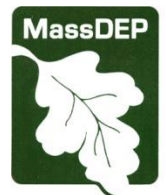
- Outreach Coordinator
- Develop informational brochures, materials and signage

2) Bilge Oil & Water Collection and Disposal Pilot Project

- Fund contractor to perform bilge pump outs

3) Enhance Enforcement

- Increased Patrols, surveillance, MassDEP regulatory enforcement



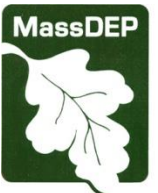
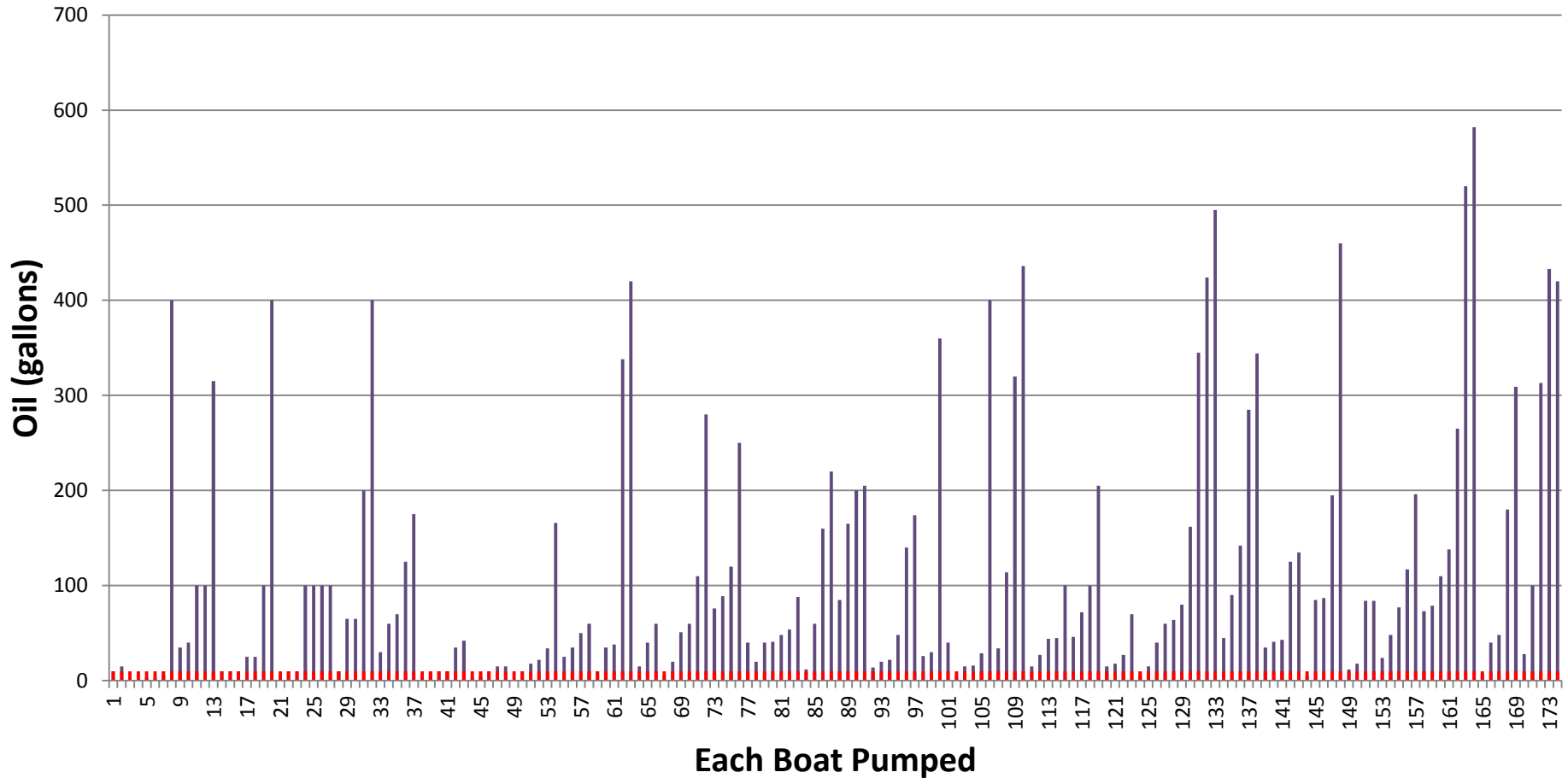
Oct. 2015 – Apr. 2017

- 174 vessels received a bilge pump-out
- 39 vessels have had the bilge pumped out more than once
- 58,666 gallons of oily bilge water recovered
- 18,387 gallons or 31% was oil
- Amount per vessel ranged from a sheen to 582 gallons



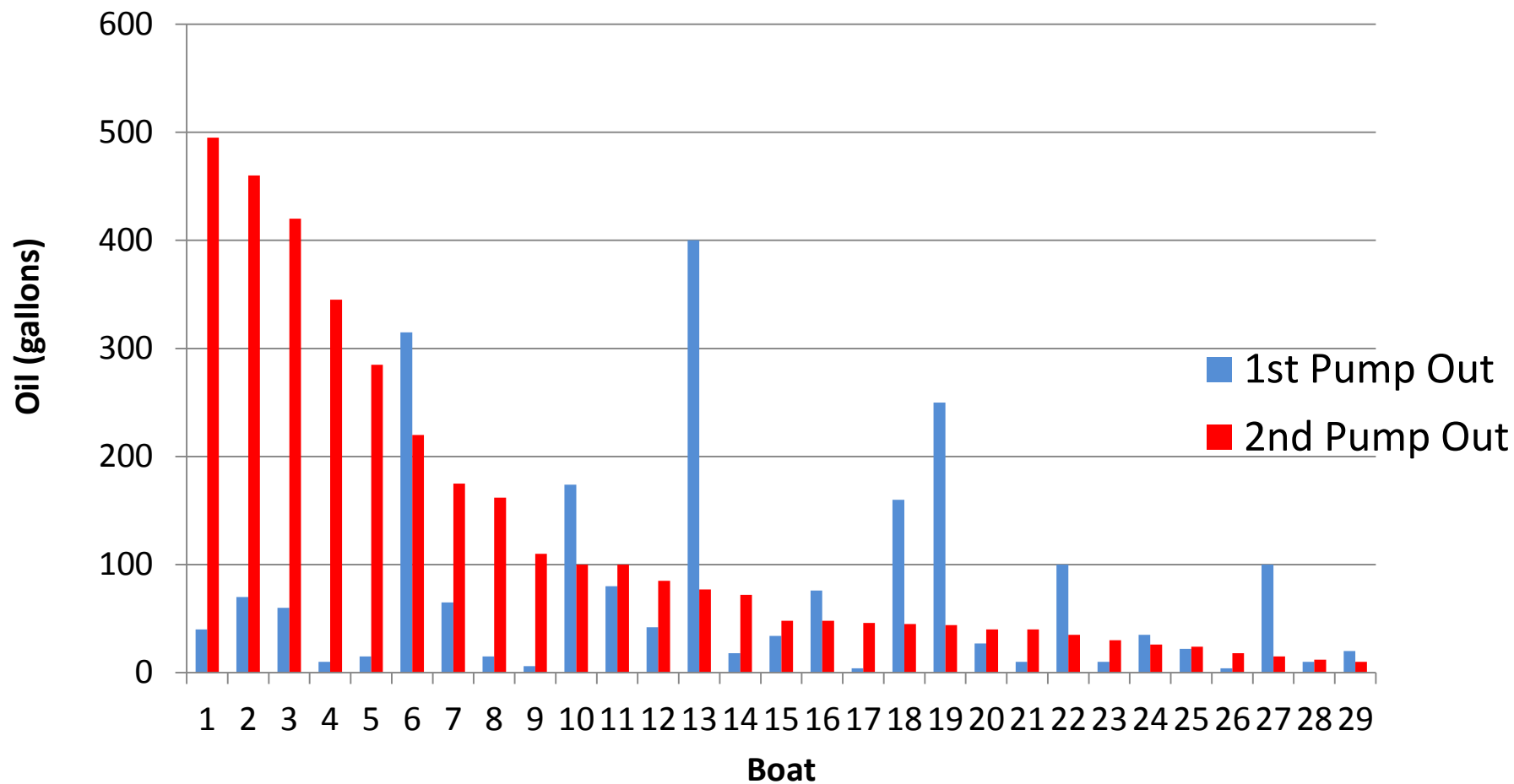
Total oil recovered

Per Boat



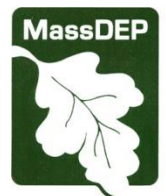
Boats Pumped Twice

Sorted by volume of 2nd pump out



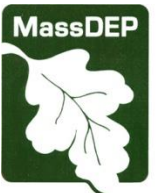
Pilot Project Cost

Dates	Education, Outreach, Signage/Brochures	Pumpouts
Oct '15-Jun'16	\$29,097.53	\$47,515.52
Jul'16- Apr '17	\$25,680.57	\$50,438.60
Total	\$54,778.10	\$97,954.12



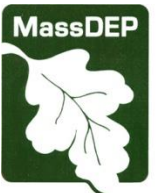
What we learned

- Many boat owners/operators think its ok to dump oil at sea.
- 10's to 100's thousands gallons of waste oil unaccounted for
- \$1,000 to \$2,000 hire contractor for pump out
- Not all boats in the Harbor are a problem



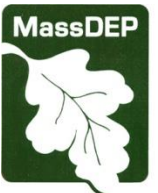
Other stuff we learned

- Bilge pumping service is needed
- Oil filters, oily rags and waste oil disposal options are needed
- Problem is not unique to Massachusetts



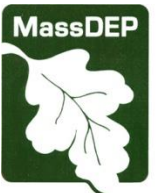
What we changed

- MassDEP and USCG meet with boat rep. during pump-out
- Inspection and recommendations from Marine Safety Consultants
- Letter summarizing results of pump-out sent to boat owner



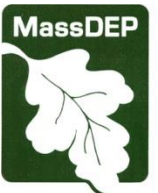
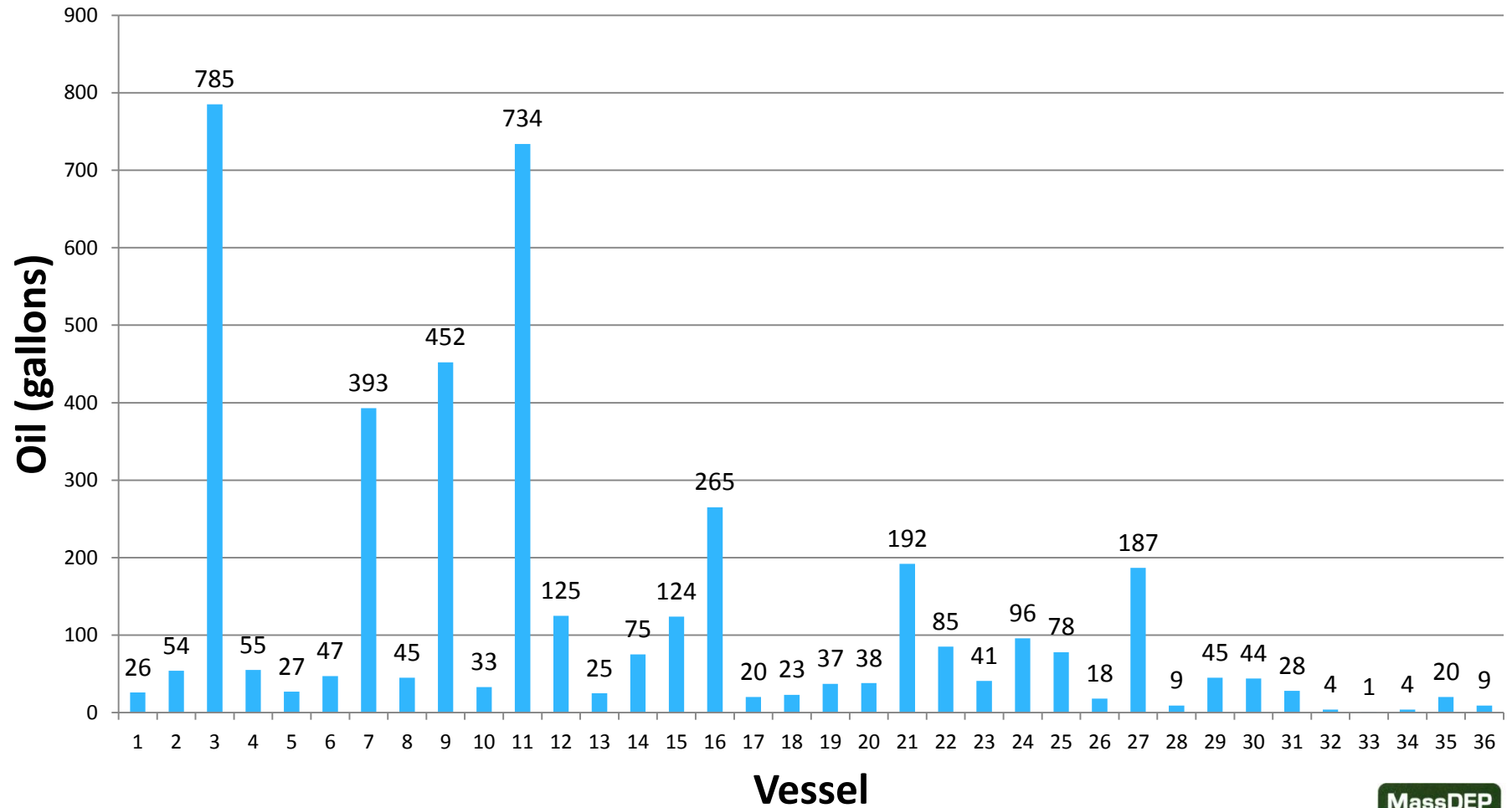
Since Feb. 2018

- 36 vessels received a bilge pump-out
- 13,545 gallons of oily bilge water recovered
- 4244 gallons or 31% was oil
- Amount of oil per vessel ranged from a sheen to 785 gallons



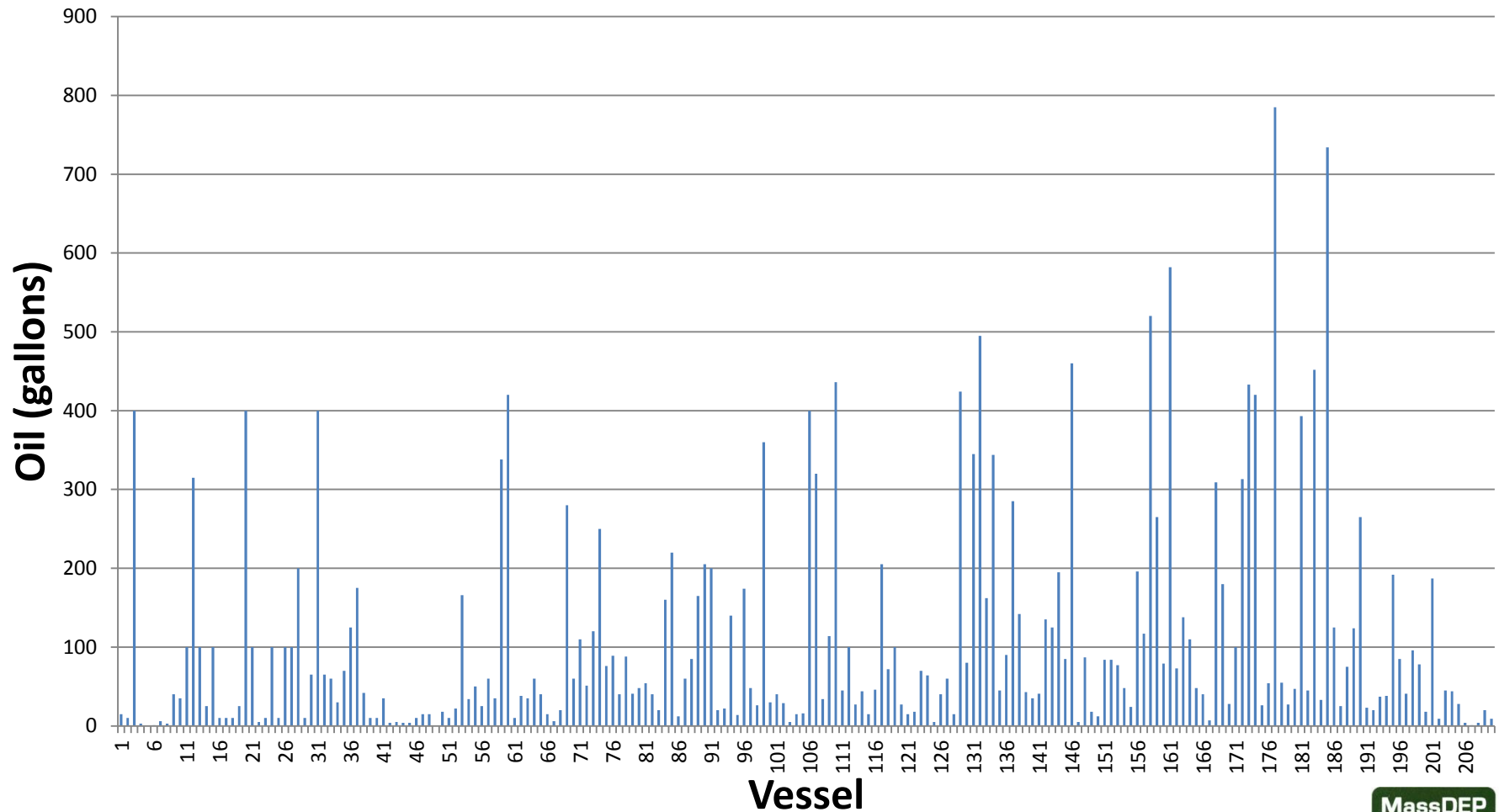
Total oil recovered

Feb. 2018 -



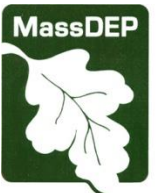
Total oil recovered

Oct 2015 – April 2018



Bilge Reclamation Facility

- MassDEP contractor developing conceptual design
- Water front facility would be ideal
- Oil/water separation
- Reviewing requirements for transporter's license





- ★ Fixed Bilge Reclamation Facilities
- ▲ Possible Future Sites

- ◆ Skid Mounted Bilge Units
- Used Oil Collection Facilities

Texas bilge water reclamation facilities

Texas Reclamation Facility



Texas Reclamation Facility



Questions?

